A Multi-Disciplined Community of Scholars

With the Johnstone Centre being a founding partner of the Institute of Land, Water and Society, it is time to take stock and document the Centre’s publication record.

Starting off as a teaching and consulting facility in 1989, the Johnstone Centre of Charles Sturt University developed into a major player in environmental research on a regional and national scale. Over a period of fifteen years, the researchers of the Johnstone Centre influenced and shaped environmental and social research in south-eastern Australia and the Asia-Pacific region. During this period, Centre members published 1500 books, journal articles and reports and presented over 600 papers at national and international conferences.

This bibliography provides details of all publications and conference papers. In addition, an introductory essay by Assoc. Professor Dirk HR Spennemann traces the Centre’s history, and examines the extraordinary level of collaboration that occurred between Centre members and with the Australian research community at large.

This study is more than just a bibliography—it provides a case study of the research culture at a regional, multi-campus university in Australia.

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A MULTI-DISCIPLINED COMMUNITY OF SCHOLARS
A Multi-Disciplined Community of Scholars
A Johnstone Centre Bibliography 1987–2004

Compiled and Introduced by
Dirk H.R. Spennemann

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INTRODUCTION

PART OF THE COMMITMENT OF THE JOHNSTONE CENTRE to the furtherance of research and policy development in natural and protected area management in Australia and overseas can be documented and measured by the number of publications produced by its members. In the long term, historical perspective it is not the amount of research grant dollars that were attracted—they are after all only the means to carry out and facilitate the research—but the contribution to science and the humanities in general that makes a research centre. This bibliography compiles the books (both authored and edited), book chapters, journal articles (refereed and non-refereed), reports, book-length bibliographies, and book reviews, as well as conference papers and public lectures presented by members and associate members of the Johnstone Centre between its foundation in 1986 and 2004, when it merged with other accredited research centres of Charles Sturt University to form the new Institute and Land, Water and Society. While the Johnstone Centre continues to exist in name, not the least through the brand identity of the consulting arm as well as through the herbarium (p. 6), future publications of members will appear under the label of the new Institute. Thus this bibliography forms a permanent record celebrating one of the success stories of Charles Sturt University.

THE JOHNSTONE CENTRE

In the absence of a formal history of the Johnstone Centre, the following section is slightly more extensive than otherwise warranted so as to provide background to the centre and its mission, so that the bibliography, and the publications listed herein, can be understood in context.

The formative period of the Johnstone Centre is very closely linked with the development of the Parks Management course in Albury. The parks management course had been set up in 1982 at the Goulburn College of Advanced Education in close collaboration with the New South Wales National Parks and Wildlife Service, driven by its director Donald A. Johnstone (1927–1997). Following the amalgamation of the Goulburn CAE with the Riverina CAE, the course was transferred to Albury in 1984.
The Johnstone Centre, named in honour of Donald A. Johnstone, started its existence as a name for two buildings on the city campus of the then Riverina Murray Institute of Higher Education, housing all staff teaching parks management. In its origin it was thus akin to many other property-based ‘centres.’ The centre was dedicated on 2 May 1986 (Figure 1) as ‘The Johnstone Centre for teaching and research in parks, wildlife and recreation.’ Over the next three years, the Johnstone Centre name became increasingly expanded in usage to also function as a label under which staff could carry out consulting projects as well as, later, to apply to regional and national bodies for research funding. In short, a physical centre concerned with teaching had invented itself as a combined teaching, consulting and research centre. This conversion was well timed as moves were under way to develop full degrees and possibly also Honours degrees, with the concomitant need to bolster the research credentials of the institution.

Figure 1. Cover of the programme for the opening of The Johnstone Centre 2 May 1986.

After a call for proposals for Institute Centres had been issued in July 1988 (1, see p. 30), the Riverina Murray Institute of Higher Education formalised, in late March 1989, the standing of the Johnstone Centre by formally accrediting it
as one of a limited number of ‘centres for teaching and research.’ The conversion was complete. At that time, the centre staff comprised only the researchers in the Associate Diploma in Parks Management in Albury under the leadership of Terry DeLacy (Table 2). The Johnstone Centre’s mission was clear:

To promote scholarship, research, consulting and education in the management of Australia’s natural and cultural resources for conservation, recreation, and tourism, and to promote employment, education and training for Aboriginal people in natural and cultural resource management.

The emphasis on Indigenous education in natural and cultural resource management is worth noting. At the time it was related to the focus on Indigenous ranger training carried out by the School in conjunction with the NSW National Parks and Wildlife Service.

The merger of the Riverina Murray Institute for Higher Education with campuses in Wagga Wagga and Albury, and the Mitchell College of Advanced Education in Bathurst—as part of the reform of Australia’s Higher Education sector—created Charles Sturt University, duly enacted by the NSW parliament effective 1 July 1989. As part of the new institution, the Johnstone Centre was reconfirmed as one of the university’s research centres, with staff still almost exclusively drawn from the School of Applied Science in Albury. The aims were to combine the research effort with the University’s teaching efforts, with the intent of influencing and shaping professional practice in the discipline of protected area management.

![Figure 2. The first logo of the Johnstone Centre (1989-1992). Artwork by Brian Lord.](image-url)

In its first annual report (1) the Johnstone Centre commented that upon its creation Charles Sturt University was not funded for research and that the essentially negligible base funding provided by the CSU campus ($2,000) had been drawn from external funds earned by the campus. All other Centre income, some $100,000, had been derived from consulting projects, but had largely been disbursed back to the project members. The annual report makes it clear that the future of the Johnstone Centre relied on its ability to attract...
research funding from regionally and nationally competitive grants. The first annual report demonstrates the then still heavy emphasis on teaching in both the main parks management and Aboriginal Ranger Training Program (1).

Figure 3. The second logo of the Johnstone Centre (1992-2004), symbolising the interaction between land and water. Artwork by the Indigenous artist Donna Brown incorporating Brian Lord’s original design as the centre piece.

In 1991 Charles Sturt University reviewed its research strategy and put it on a more professional footing. The University resolved to concentrate its research efforts in areas of strength and to funnel the limited resources into a few designated research centres rather than to fund and support research across the board. The Johnstone Centre as one of the pre-existing centres, sought to strengthen its case for formal accreditation by expanding its scope and by including some researchers of the then School of Applied Science in Bathurst. On 1 July 1991 the Johnstone Centre was accredited as one of five designated foundation research centres of Charles Sturt University under the new title ‘Johnstone Centre for Parks, Recreation and Heritage.’ With the Indigenous Ranger program completed, it’s new mission statement dropped any reference to the Indigenous communities.

To promote scholarship, research, consulting and education in the management of Australia’s natural and cultural resources for conservation, recreation, and tourism, concentrating on the management of protected areas.10
INTRODUCTION

In the same year, the Johnstone Centre hosted its first conference, ‘Women in Archaeology’ (February 1991), followed by the conference ‘Aboriginal involvement in Parks and Protected Areas’ (22-24 July 1991) in the same year. In 1993 the Johnstone Centre made the formal breakthrough when Nick Klomp and Terry DeLacy were awarded a major Australian Research Council grant for the development of a transportable ecological field research laboratory (‘the truck’)(Figure 4).

On a formal level, the Johnstone Centre continued to go from strength to strength. It was reaccredited as a designated research centre of Charles Sturt University in January 1995, January 1998, and January 2001.

Starting off with a focus on natural and cultural resources with a heavy emphasis on protected areas, the centre gradually broadened its scope to include off-park environments. The arrival of staff with international research interest coincided with the broadening of the focus from South-eastern Australia to include Nepal, Mongolia and various islands of the Pacific. This international involvement has continued to expand (Figure 7).

In 1995 the Johnstone Centre became a truly multi-campus research centre, incorporating some researchers from the School of Science and Technology in Wagga Wagga. This trend continued following the reaccreditation in 1998 when a large number of Wagga Wagga-based researchers with a riverine ecology focus joined the centre.

Figure 4 ‘The Truck,’ the transportable ecological field research laboratory.
During its lifetime, the Johnstone Centre broadened its mission. By 1995 the Centre's mission was changed to stress the ecological element in the Centre’s research capacity. The mission was then:

“to assist in conserving the world’s biodiversity through undertaking interdisciplinary research; providing advanced training and education; supporting academic scholarship, undertaking industry consultation; and facilitating communication between researchers and end users” (8).

As a result of the combination of expanded staff and broadened staff interests, the focus of the centre’s research moved firmly to off-park environments and increasingly encompassed the social dimensions of natural resource management.

Table 1. Centre Names.

<table>
<thead>
<tr>
<th>Period</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1986-1988</td>
<td>The Johnstone Centre for teaching and research in parks, wildlife and recreation</td>
</tr>
<tr>
<td>1989-1990</td>
<td>The Johnstone Centre of Parks, Recreation and Cultural Resources</td>
</tr>
<tr>
<td>1991–1998</td>
<td>The Johnstone Centre of Parks, Recreation and Heritage</td>
</tr>
<tr>
<td>1999</td>
<td>Johnstone Centre for Conservation and Restoration of Landscapes</td>
</tr>
<tr>
<td>1999</td>
<td>Johnstone Centre for Biophysical and Social Research</td>
</tr>
<tr>
<td>2000-2004</td>
<td>Johnstone Centre. Research in Natural Resources and Society</td>
</tr>
</tbody>
</table>

Following previous successful applications to the Australian Research Council, the Johnstone Centre was able to attract funding for a regional herbarium, to be constructed as part of the new buildings on Charles Sturt University’s Greenfield campus in Thurgoona. The herbarium was opened in 1997 and operates both as a physical facility and as a virtual herbarium through its website.16

A number of changes to the centre’s name reflect the ongoing adjustments of the centre’s mission and focus (Table 1). In 1998 the Johnstone Centre formally recognised the importance of Social Research by including it in its title. In 1999 the name changed for the last time, now to merely ‘Johnstone Centre’ with the positioning line ‘Research in Natural Resources and Society.’ The mission was to ‘undertake research that addresses the conservation and restoration of natural resources’ through facilitating ‘conservation and restoration outcomes that are socially, environmentally and economically desirable’ (9). By 2001 the Centre’s mission had been again adjusted to reflect the new priorities:

“The Johnstone Centre’s mission is to assist in conserving and restoring environmental quality in protected and human-dominated landscapes. We will seek to do this within a systems-based framework, using inter-disciplinary approaches.”17

Despite its multi-campus nature, Charles Sturt University was conceived as a fully amalgamated institution rather than as a federated one, and saw the development of a centralised hierarchical administrative model with key decision makers geographically distributed over the three foundation campuses of
Albury, Bathurst and Wagga Wagga. The Johnstone Centre followed suit, with the directorship based at one location, and an associate directorship based at one of the other campuses—first Bathurst and later Wagga Wagga.

Following Terry DeLacy’s departure from Charles Sturt University, the centre directorship passed to David Goldney, until his retirement based in Bathurst, demonstrating that the centre had fully outgrown its Albury cradle. Following an interlude with Tony Norton in Albury, the directorship passed on to Alistair Robertson based in Wagga Wagga. After his departure to Western Australia, the directorship passed back to Albury where it was held in acting capacity by a number of staff.

Clearly, the frequent changes in the Centre’s directorship had influences on the Centre’s research foci and were not conducive to productivity improvements. That research capacity and productivity remained high nonetheless (p. 11), demonstrates the intellectual strength of the Centre membership.

As part of the restructure of the research effort at Charles Sturt University in 2004, the Johnstone Centre merged with the Centre for Rural Social Research, as well as staff from CSIRO, to form the Institute and Land, Water and Society, thus ending its independent identity as a research centre.

The membership of the Johnstone Centre was at first by self-nomination and expression of interest in the general area of research. Permanent employees of Charles Sturt University were full members, while other researchers not employed by the university but affiliated with the Johnstone Centre were classed as Associate Members. As status and funding of the Johnstone Centre depended on productivity, there has been a tendency to emphasise the efforts made by productive members when reporting to the university. The 1993 re-accreditation document introduced the concept of ‘key researchers.’ By 1994 Johnstone Centre members were expected to write one refereed paper or book chapter per year, with the Centre to attain an average output of four refereed papers per member. By 1997 formal criteria for membership had been introduced, driven by the requirements of Charles Sturt University to demonstrate research capacity and performance. Johnstone Centre Members had to meet the criterion of at least one refereed paper per year else they stood the risk of being ‘demoted’ to Associate status. At the same time, all postgraduate research students were made Associates of the Johnstone Centre in order to make them (feel) more part of the Centre’s research community. This substantially expanded the overall membership base. The membership criteria, soon after raised to three papers over two years were, however, never enforced until 2001, when the dichotomy between members and associates was solely driven by performance and productivity, with postgraduate students and all members who
were not fully engaged in the research process nominated as Associate members (Figure 5).

Table 2. Centre Directors.

<table>
<thead>
<tr>
<th>Period</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1986-1996 Feb</td>
<td>Terry DeLacy</td>
</tr>
<tr>
<td>1996 Feb–1997 Feb</td>
<td>Michael Lockwood (acting)</td>
</tr>
<tr>
<td>1997 Feb-Dec</td>
<td>Tony Norton</td>
</tr>
<tr>
<td>1998 Jan-Feb</td>
<td>Michael Lockwood (acting)</td>
</tr>
<tr>
<td>1999 Jul–Dec</td>
<td>Alan Curtis (acting)</td>
</tr>
<tr>
<td>2000–2002 Aug</td>
<td>Alistair I Robertson</td>
</tr>
<tr>
<td>2002 Aug–2003 Jan</td>
<td>Dirk HR Spennemann (acting)</td>
</tr>
<tr>
<td>2003 Feb–2003 Jun</td>
<td>Brian Lord (acting)</td>
</tr>
<tr>
<td>2003 Jul-Sep</td>
<td>Dirk HR Spennemann (acting)</td>
</tr>
<tr>
<td>2003 Sep-2004 Dec</td>
<td>Nick I Klomp (acting)</td>
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</tbody>
</table>

From early on the Johnstone Centre had combined applied research with applied consulting projects. In 2000 the Johnstone Centre appointed a consulting manager, based in Wagga Wagga, with the aim of developing an income stream independent of grants and university-provided operating funds.
INTRODUCTION

Figure 6. The homepage of the Johnstone Centre website. (A major vehicle for the dissemination of publications).

JOHNSONTE CENTRE PUBLICATIONS

The Johnstone Centre produced a number of publications under its own name. In 1993 it commenced the series Johnstone Centre Reports which by the end of 2004 had reached over 200 numbers. The reports cover both research reports as well as some research-based consultancies. Not all Johnstone Centre Reports, however, are included in the bibliography, as some were confidential and of restricted circulation. A number of Johnstone Centre reports were made publicly available in digital form (PDF files) through the Johnstone Centre website (Figure 6).

In May 1998 the Johnstone Centre commenced the publication of Research Alive, a newsletter distributed in digital form (PDF files). The digital format allowed the issuing of the newsletter, of which 23 issues were published (10), in varied page lengths. Additionally, in 2001 the Johnstone Centre commenced
producing 1-page Research Highlights (11, 7 titles) and Research Summaries (12, 49 titles), which were also distributed in digital form only via the Johnstone Centre homepage, through targeted e-mailing and through inclusion in conference pack and capability presentations to consultancy clients.

Figure 7. Geographical spread of the research efforts of the Johnstone Centre members.

**Some Observations on Scope**

It is well beyond the scope of this introduction—and the bibliography in general—to analyse in depth the content and geographic spread of the publications. It may thus suffice to note that publications by the Johnstone Centre members *inter alia* covered subject matter that, although quite diverse, all neatly comes under the umbrella of ‘Research in Natural Resources and Society.’ The following provides an impression of the subject matter covered: adaptive management, amphibian communities, animal nutrition and foraging, aquatic weeds, archaeology, architecture, Australian history, bat echolocation, biodiversity, breeding behaviour, bushfire management, complexity, cultural interpretation, cultural tourism, disaster management, dryland salinity, ecological literacy, ecological studies, ecotourism, environmental computing, environmental econometrics, environmental informatics, fire ecology, fish management, forensic science, heritage management, hindcasting of typhoons, Indigenous consultation, Indigenous land management, interpretation, land use history, landcare, landscape management, leisure theory, literary history, military
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history, natural resource policy, nature tourism, nature-based tourism, on-line education, Pacific history, plant anatomy, plant identification, population genetics, protected area management, recreation, sea-level assessments, sea-level history, simulated social networks, snake handling, space heritage, spatial metadata, taxonomy, tourism management, urban salinity, valuing natural areas, vegetation history, visitor management, wildlife management, world-wide web development

Figure 7 illustrates the geographical spread of the content of the publications. The emphasis of the research centre has been on Australia and the Pacific Region, with some work in South-East Asia, and outliers in Europe, Africa and the USA.

![Figure 8. Combined publications output by Johnstone Centre members 1989–2004.](image)

**SOME OBSERVATIONS ON PUBLICATIONS AND PRODUCTIVITY**

The success of the endeavours of academics is usually measured by the number and quality of publications and in the impact these publications have on society at large. A bibliography such as the present compilation can only measure the quantity of publications and, through classification of the publications into peer-reviewed and non-reviewed, can provide some measure of quality. Table 3 summarises the total publications output by members of the Johnstone Centre per year. The data are expressed as full numbers of papers and no attempt has been made to break down the authorship of multi-authored papers and reports into the constituent fractions. What is evident from the data, however, is the steady output of refereed papers and book chapters commencing in 1989. Given
that the Johnstone Centre was founded in 1986, we can assume that a lead-up period before the first publication appeared. The number of publications increased when staff from the School of Environmental Studies in Bathurst joined the Johnstone Centre and continued to grow, as can be expected, when staff from the School of Science and Technology in Wagga Wagga joined up. The publications peaked in 2000 with highs in 1997 and 1998 (Figure 8).

<table>
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<tr>
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<td>317</td>
<td>198</td>
<td>289</td>
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Purely quantitative data, as shown in Figure 8, are somewhat misleading as the number of centre members fluctuated over time. An attempt was made to collate a comprehensive list of Johnstone Centre Members and Associates (Table 5), but despite the comparatively recent period, it would appear that the available documentation is incomplete. Figure 9 shows the diachronic development of the total publications corrected for total centre membership (based on the data set out in Table 5). Given that the membership includes both productive and ‘unproductive’ members, as well as postgraduate students (as of 1998), the graph provides the relative per-capita performance of the
centre as a whole. It is not readily possible to calculate the per-capita performance of (full) members only. The formative period of the centre sees a steady increase in productivity until a peak in 1997. The productivity then seemingly drops off until 2002, when it rises again. The peak in 1997, which is even more pronounced if we exclude the reports from the consideration, is caused by the fact that centre membership dramatically increased in 1998, in particular through the inclusion of large numbers of associates (mainly postgraduate students). It is worth pointing out that the curves for all publications, as well as for publications excluding reports are similar.

If we consider, however, that there is a lag time of approximately a year between submission of a manuscript to a journal (or book) and its publication, then the ratio of paper published in a given year against the membership needs to be offset by one year. Figure 10 shows the data corrected accordingly. The curve for publications excluding the reports shows a gradual rise until 1994 and then a roughly stable tracking, with the exception of a dip in 1995 and a decline in 2003. The long-term average 1994–2004 is 1.32 publications per member and 2.2 when reports are included. The increased membership since 1998 has not translated into a proportional overall increase in publications.

Figure 9. Combined publications output by Johnstone Centre members 1989–2004 corrected for total membership.
Figure 10. Combined publications output by Johnstone Centre members 1989–2004 corrected for total membership taking into account the lag between submission and publication date.

Figure 11. Diachronic comparison of the proportions of the three major publication categories, 1989 to 2004. Note that book chapters are combined with refereed papers.
Figure 12. Diachronic development of the academic publications output, 1989 to 2004.

Figure 13. Diachronic development of the report output, 1989 to 2004.
The relative mix of books, book chapters, refereed papers, non-refereed papers and reports shows that Centre members could successfully address a range of audiences (Figure 11). After an initial period of highs and lows, the relative proportions became steady. In the long-term average over the life of the centre, 43.3% of all publications are book chapters or refereed papers, 22.3% are non-refereed paper with reports making up 34.3%.

While emphasis was always placed on the high-end peer-reviewed component, as this provides the academic kudos to the researchers and the centre as a whole, these publications are often regarded as remote from the practitioners. The number of non-refereed papers that appear in key industry journals attest to the Centre members’ ability to also cater for that audience. The curves for refereed and non-refereed papers are roughly similar (Figure 12). However, in keeping with emphasis on high-end publications, the number of non-refereed papers is much lower, on average about half the number of refereed papers.

Reports and Technical Reports produced by Johnstone Centre members fluctuate in their frequency, which is a factor of both research and consulting opportunity. Overall, however, the reports generally show an upward trend except for 2004 (Figure 13).

What is noteworthy, however, is that there is no correlation between the curves for refereed or unrefereed papers (Figure 12) and reports (Figure 13), suggesting that Johnstone Centre members were not very proficient at turning consulting projects and ‘reportable’ work into at least one non-refereed paper. This is not a function of a differential in research status: canvassing the entire output of the authors of refereed and non-refereed papers shows that it is more often than not the same members that publish in both refereed and non-refereed journals. Thus, productive members appear to be productive across the spectrum of publication types.

In addition to the publications, Johnstone Centre members presented 182 papers at international conferences and 411 papers at conferences and symposia in Australia. The attendance at national conferences shows a peak between 1998 and 2001 and a dramatic drop off in 2002 and rebound in 2003. The presentations at international conferences fluctuated dramatically between 1997 and 2001. Again, the number dropped off dramatically in 2002 with a rebound the year after.

What is the success of Johnstone Centre members in translating verbal conference presentations into written publications? Figure 15 shows the relationship between conference papers and refereed and non-refereed papers and book chapters. With the exception of 1998 there appears to be a good correlation between the two. That is unexpected, however, as one would assume a time lag between the verbal presentation and its publication in journals or conference proceedings.
Figure 14. Diachronic development of the conference papers, 1989 to 2004.

Figure 15. Relationship of conference papers to publications, 1989 to 2004.
### Table 4. Frequency of co-authorship of publications.

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### Some Observations on Collaboration

The Johnstone Centre was, in essence, a voluntary congregation of like-minded academics, striving towards a common goal. That meant that collaboration among researchers could be encouraged, but not (en-)forced. One of the underlying assumptions for the creation of the Johnstone Centre as well as the other research centres of Charles Sturt University was that the concentration of researchers under a common structure would generate a synergy that was expected to lead to collaboration between centre members. As a rule, collaboration occurred when communalities on interest emerged. Given the spread of the discipline areas within the Johnstone Centre, the connectivity that can be documented underlines the success of the Johnstone Centre.

The publications as the permanent record of this collaboration can be used as a proxy to examine the extent of collaboration. Table 4 sets out the frequency of co-authored publications between 1989 and 2004. The fact that more than half (58.5%) of all publications are indeed co-authored shows that collaboration has been a hallmark of the Johnstone Centre. Two and three authors are most common—with one paper written by 15 researchers (Figure 16). The graphical representation of the data (Figure 18) demonstrates a trend of increasing collaboration with other researchers and co-published papers and reports. 22

In total 593 different authors contributed to the publications listed in this bibliography. Of the total of 129 Johnstone Centre members listed in Table 4, 99 were (co-)authors of at least one publication or the other. The remaining 494
co-authors were drawn from external collaborators. The wide range of co-authors underlines the ability of Johnstone Centre members to collaborate both extensively and on a wide front.

![Figure 16. Frequency of co-authorship of publications.](image)

While the frequency of collaboration is obvious from the histogram shown in Figure 16, mere frequencies do not indicate the nature of the collaboration. Moreover, one has to ask whether the collaboration is confined to a few like-minded individuals who continually co-publish, or whether there is a real network of collaboration. Figure 19 attempts to provide a graphic representation of the connectivity of the publication efforts of a number of Johnstone Centre members. The members are somewhat arbitrarily included in the representation, based on an interpretation of their overall productivity and ‘standing’ in the centre. The connections in the grey-shaded area are connections between members, while the connections in the white ring are those between the members shown and other researchers (who also may be centre Members or Associates). The size of the circles at the margin of the grey disc and the white ring indicates the overall number of publications by researcher. What becomes immediately obvious is that a wide range of co-publication occurred among centre members, and that the collaboration and co-publication creates a network.

Figure 20 uses the same technique to show the connectivity of selected Johnstone Centre members.
Figure 17. Percentage of cumulative author fraction of Johnstone Centre members, 1989-2004.

Figure 18. Diachronic development of co-authored papers and reports, 1989 to 2004.
During the past fifteen years the Johnstone Centre has grown from a label for a couple of buildings to a research centre comprised of a community of scholars distributed over several of Charles Sturt University’s campuses. The productivity of its members, and their level of collaboration, both with other Centre members, as well as with researchers outside the Centre, have made the Johnstone Centre one of Charles Sturt University’s success stories. It can be anticipated that this productivity will flow to the new Institute of Land, Water and Society.

Figure 19. Connectivity of Johnstone Centre members.
Figure 20. Connectivity of selected Johnstone Centre members.
Table 5. Centre Members.

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ANNUAL REPORTS ETC.

DISCUSSION DOCUMENTS

PUBLICITY DOCUMENTS
INTRODUCTION

11. Research Highlights [Information sheets]. A4, 1 page.
   • Exchanges of organic carbon between river channels and riparian habitats in dryland rivers during floods (AI Robertson)
   • Global warming, rising sea levels and intertidal habitats (IR Taylor)
   • Why eucalypts excel at post-fire resprouting from their trunks and branches (GE Burrows)
   • Mistletoe as a keystone resource in Australian woodlands and forests (DM Watson)
   • Heritage eco-tourism in Australia and Micronesia (DHR Spennemann)

12. Project summaries. [Information sheets]. A4, 1 page.
   • Conservation of Brolgas and their wetland habitats in southern New South Wales and northern Victoria
   • Effects of anthropogenic disturbance regimes on roadside Acacia populations in a fragmented agricultural landscape
   • The short-term effects of stock exclusion in remnant woodlands in southern NSW
   • Historical determinants of roadside vegetation condition in NSW
   • Spatial analysis of point patterns on road networks using the Network K-function
   • Spatial analysis of the effects of disturbance of roadworks on roadside Acacia populations
   • Biodiversity of aquatic invertebrates on the Murrumbidgee floodplain
   • Birds in the long paddock
   • Development of a method for rapid appraisal of riparian condition
   • Grazing in riparian zones: impacts on biodiversity
   • Identifying best management practices for riparian habitats in Gippsland dairy regions: riparian condition and relationships with farm management
   • Livestock management in river redgum forests in the Murray-Darling Basin
   • Relationships between grazing management practices and wetland frog communities on the Murrumbidgee river
   • Relationships between grazing management and riparian condition and biodiversity on the Murrumbidgee river
   • Understanding landholder management of riparian zones in the Goulburn Broken catchment
   • Aquatic biodiversity in rice fields
   • The initial pulse of DOC from floodplain litter
   • Salinity management: learning from natural ecosystems
   • Crab spiders in the woodlands of the South West Slopes
   • Using fence posts to enhance fauna in grazed native grasslands and woodlands
   • Spatial ecology of waterfowl in agricultural and natural landscapes
   • Mistletoe as a keystone resource in Australian woodlands and forests
   • Re-establishment of Themeda triandra in grassy woodland
   • Historical changes in woodland tree densities
   • Restoring soil conditions and ground plants in degraded grassy box woodlands
   • Living on the edge: waterbird ecology and conservation
   • The impact of grazing on floodplain soil microbial diversity and carbon cycling
   • The Charles Sturt University Herbarium
   • The effect of flow regulation on the inundation regime of the Murrumbidgee floodplain
   • An evaluation of the effectiveness of an increase in legal size of Murray Crayfish (Euastacus armatis) in the Murrumbidgee River
   • Grazing management for biodiversity conservation: an adaptive approach
• Grazing management for biodiversity conservation: a spatial study from Terrick Terrick National Park, Victoria
• Free as a bird? - habitat requirements of the Barking Owl in south-eastern Australia
• Developing indicators of river health: the response of biofilms and their consumers to river flow management
• Ecological assessment of cyclic release patterns from Dartmouth Dam to the Mitta Mitta River, Victoria
• Spatial and temporal dynamics of Southern Bell frog (*Litoria raniformis*) populations in agricultural landscapes
• John Farrell: the literary heritage of an Albury brewer and writer (DHR Spennemann)
• Reconstructing rural cultural environments: The Ten Mile Creek (Holbrook) circulating library of 1871 (DHR Spennemann)
• Traditional Milkfish aquaculture in Nauru (DHR Spennemann)
• Understanding natural resource management through metaphor (C Allan)
• Participatory Rural Appraisal in the Billabong Catchment
• Regional scale adaptive management
• Stakeholder views and behaviour during the water reform process in NSW
• Changing shifting cultivation systems in Lao PDR (J Millar)
• The social construction of Jenolan Caves: multiple meanings of cave tourist site
• The cultural heritage of colonial newspaper production from central Victorian goldfields (1851 - 1901) (S Hughes)
• Creating a sustainable scuba diving industry in Vanuatu (J Howard)
• Cultural heritage in the face of natural disasters (K Graham)
• Mungabareena Reserve Wiradjuri Reconciliation Project (Yalmambirra)
ENDNOTES

1. The entries in this bibliography have been compiled from annual reports of the Johnstone Centre, as well as publications lists provided by staff. Current and past members of the Johnstone Centre were repeatedly invited to provide information for inclusion in the bibliography.

A complete bibliography was circulated among all the current members of the Johnstone Centre in late 2004 with the request to add in missing data. A near-final copy was placed on public exhibition in July 2005. I am indebted to all members who furnished the required information and provided additional data.

It should be noted, that due to time constraints and other commitments none of the references could be sighted and verified, and that the occasionally missing information, such as pagination, could not be followed up and ascertained. Publications in press at the time of writing have been included only if they were formally accepted for publication by the end of 2004.

Kris Deegan went through the available files and provided information on the centre membership (Table 5). This was augmented by a perusal of annual reports and a systematic canvassing of centre members who had a long association with the centre. Copies of older annual reports not in the JC archives were provided by Jim Birekhead and Michael Lockwood. Brian Lord kindly made available his unpublished manuscript on the History of the Parks Management courses taught at Albury.

2. This section has been compiled from various Annual Reports and Publicity Documents set out on page 30. Use has been made of the unpublished manuscript ‘Brief History of Parks Management Courses—The First Ten Years’ by Brian Lord (1992), as well as of file material collected by Rick Allen.

3. ‘Dalrye’ (480 Wilson St) and ‘Irvington’ (478 Wilson St) in the centre of Albury. In 1995 the School of Environmental Sciences moved to the new campus in Thurgoona, with the Johnstone Centre occupying some offices in the former Albury-Wodonga Development Corporation Building. In 1997 the School moved into the purposed built office building made of rammed earth construction where it still remains. Again, the Johnstone Centre occupies a number of offices in the building. In addition a purpose-build herbarium was constructed.


5. Formally ‘The Institute Centre for Teaching and Research in Parks, Recreation and Cultural Resources (Johnstone Centre).’ Edwin Brooks, Acting Principal RMIHE-Murray to Terry DeLacy 30 March 1989.

6. The long lead-up to the formal appointment of the Johnstone Centre has to be seen in the context of the ongoing discussions about the amalgamation of the Riverina Murray of Institute of Higher Education with the Mitchell College of Advanced Education.


9. The unit was called the Department of Resource Management of the Wagga Wagga-based School of Applied Science from 1984 to March 1985. With the creation of the Riverina Murray Institute of Higher Education on 1 March 1985, the unit was transferred to the newly created Albury-based School of Management, Technology and the Arts. After the formation of a School of Arts,
the School changed to ‘Management and Technology.’ It became the School of Applied Science in 1990. After a faculty review it was renamed into the School of Environmental and Information Science in July 1991 and became the School of Environmental and Information Sciences in 1993.

10. ‘The Johnstone Centre of Parks, Recreation and Heritage.’ Undated document [August? 1991].—Following the first planning meeting of the newly accredited Johnstone Centre on 12 December 1991, the mission was adjusted to read: ‘To promote scholarship, research, consulting and education in the management of natural resources and cultural heritage for conservation, recreation, and tourism, with an emphasis on the management of protected areas.’


15. The herbarium concept was developed by Rick Allen and Michael Lockwood in 1996. Implementation was supervised by Rick Allen and Kylie Kent. Ian D. Lunt was appointed as the first herbarium manager.

16. At the time of writing the website address was:
   http://www.csu.edu.au/herbarium/


20. The total publications plotted include all printed publications in the bibliography with the exception of Technical Reports.

21. But not for reports and technical reports, which have an immediacy to their publication dates.

22. Note that in Figure 16 and Figure 18 the papers written by seven or more authors have been collapsed and coded as seven.
**BOOKS (AUTHORED)**

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1024. Spennemann Dirk HR & Steinke, Anthony (1995) Computerised Interactive Cultural Resources Inventory Training: A computer program for survey training at Charles Sturt University. The Johnstone Centre of Parks, Recreation and Heritage Report Nº 32. The Johnstone Centre of Parks, Recreation and Heritage, Charles Sturt University, Albury, NSW.


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1189. Smith, L. (1990) Salvage Excavation of Two Open Sites on Eastern Creek, Cumberland Plain, NSW. Unpublished report to the Metropolitan Waste Management Authority.


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1218. McKercher, B. (1994) DCNR Staff Attitudes to Tourism in the Alpine National Park DCNR, Melbourne.


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1248. Spennemann, D.H.R. (1995) Students' commitments to attend residential schools: I. who bears the burden? School of Environmental and Information Sciences Report No 2, School of Environmental and Information Sciences, Charles Sturt University, Albury, NSW.
1249. Spennemann, D.H.R. (1995) Students' commitments to attend residential schools: II. the desirability of residential schools. School of Environmental and Information Sciences Report No 3, School of Environmental and Information Sciences, Charles Sturt University, Albury, NSW.

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With the Johnstone Centre being a founding partner of the Institute of Land, Water and Society, it is time to take stock and document the Centre’s publication record.

Starting off as a teaching and consulting facility in 1989, the Johnstone Centre of Charles Sturt University developed into a major player in environmental research on a regional and national scale. Over a period of fifteen years, the researchers of the Johnstone Centre influenced and shaped environmental and social research in south-eastern Australia and the Asia-Pacific region. During this period, Centre members published 1500 books, journal articles and reports and presented over 600 papers at national and international conferences.

This bibliography provides details of all publications and conference papers. In addition, an introductory essay by Assoc. Professor Dirk HR Spennemann traces the Centre’s history, and examines the extraordinary level of collaboration that occurred between Centre members and with the Australian research community at large.

This study is more than just a bibliography—it provides a case study of the research culture at a regional, multi-campus university in Australia.

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